

# Wind, Rain, Coastal Flooding and Wintry Weather (inland) this Sunday into Monday

**Decision Support Briefing # 1**  
**As of: 330 PM Friday, January 14<sup>th</sup>, 2022**

Briefing applies to the  
Morehead City/Newport, NC  
Area Only








## What Has Changed?

- 1<sup>st</sup> full briefing on the storm
- First maps on snow, rainfall, wind



## Main Points

Hazard	Impacts	Location	Timing
<b>Coastal Flooding</b> 	<p>Minor to Moderate: Water levels 1-3 ft AGL. Flooding of low lying roadways, parking lots, and properties.</p> <p>Minor ocean overwash possible. Could impact travel along NC 12.</p>	<p>Minor to Moderate inundation: Downeast Carteret County, areas along the lower Neuse River, Pamlico River, Crystal Coast. Also along sound side Outer Banks</p> <p>Minor ocean overwash: Northern OBX to Hatteras Island</p>	<p>Sunday and Monday.</p>
<b>Winter Weather</b> 	<p>Hazardous travel possible with icy roads. A glaze of ice due to a combination of freezing rain, sleet and snow.</p>	<p>Inland areas of Eastern North Carolina (West of Highway 17).</p>	<p>Early Sunday Morning.</p>
<b>Wind</b> 	<p>Strong winds possible. Scattered power outages or small limbs down.</p>	<p>Mainly near the coast. Strongest winds along the Outer Banks.</p>	<p>Strongest Sunday and Sunday Night.</p>
<b>Heavy Rainfall</b> 	<p>Localized ponding of water possible in low lying areas, during periods of heavy rain.</p>	<p>All of Eastern NC</p>	<p>Sunday and Sunday night.</p>
<b>Marine</b> 	<p>Dangerous seas and strong, Gale to Storm force winds. Storm Force winds possible</p>	<p>Most coastal waters, sounds, and rivers.</p>	<p>Sunday through Monday.</p>

# Summary of Greatest Impacts



## Coastal Flooding: See Maps to Follow

None

Limited

Elevated

Significant

Extreme



## Wintry Weather: Inland Eastern North Carolina

None

Limited

Elevated

Significant

Extreme



## Winds: Coastal Areas

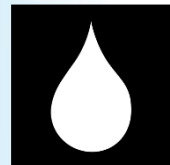
None

Limited

Elevated

Significant

Extreme



## Heavy Rainfall Flooding: All of Eastern NC

None

Limited

Elevated

Significant

Extreme



## Marine: All Marine Areas

None

Limited

Elevated

Significant

Extreme





# Coastal Flooding

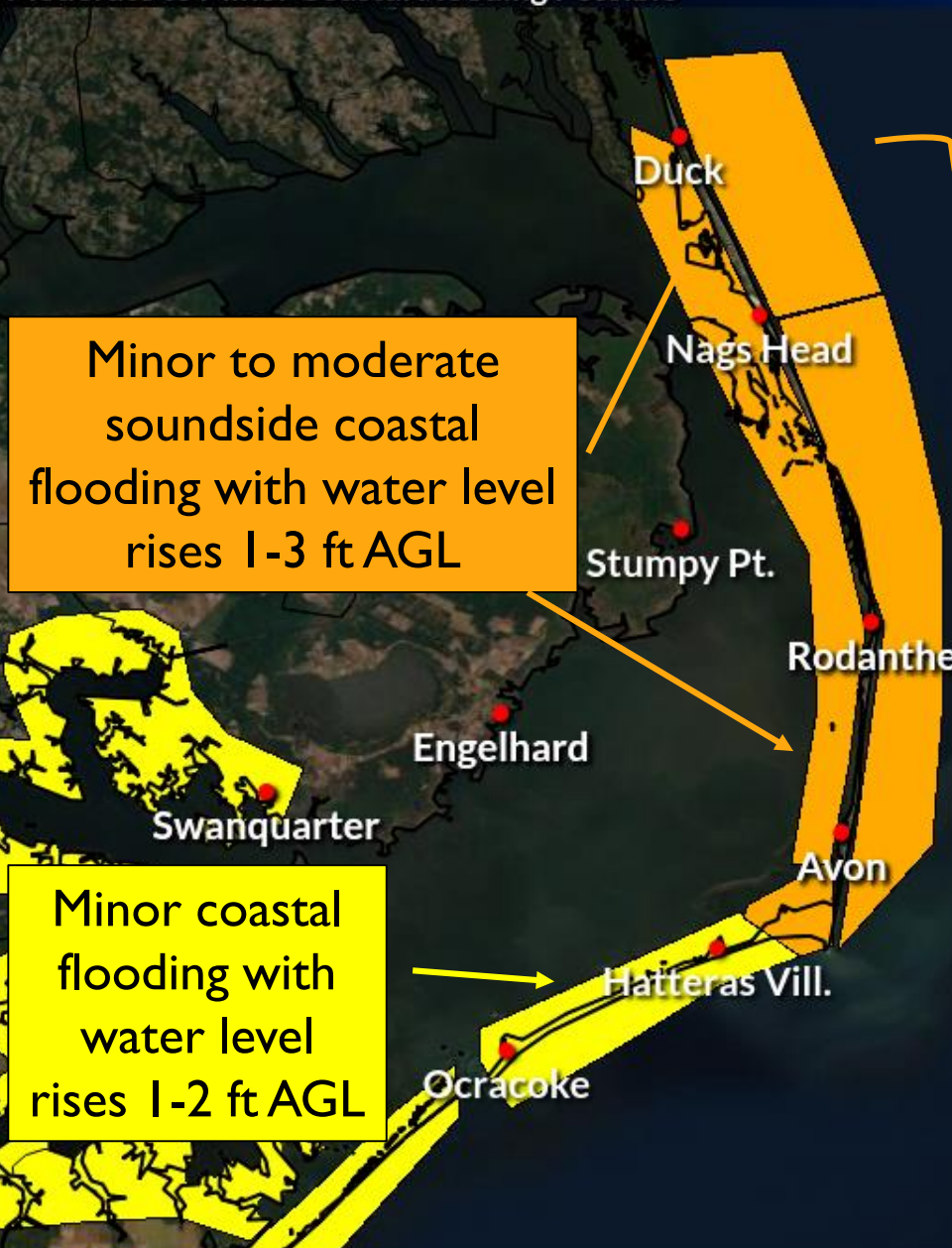
Sunday and Monday

Weather Forecast Office  
Newport/Morehead City, NC

Issued Jan 14, 2022 3:52 PM EST



Moderate to Minor Coastal Flooding Possible



Minor ocean overwash possible from Duck to Cape Hatteras.

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



# Coastal Flooding

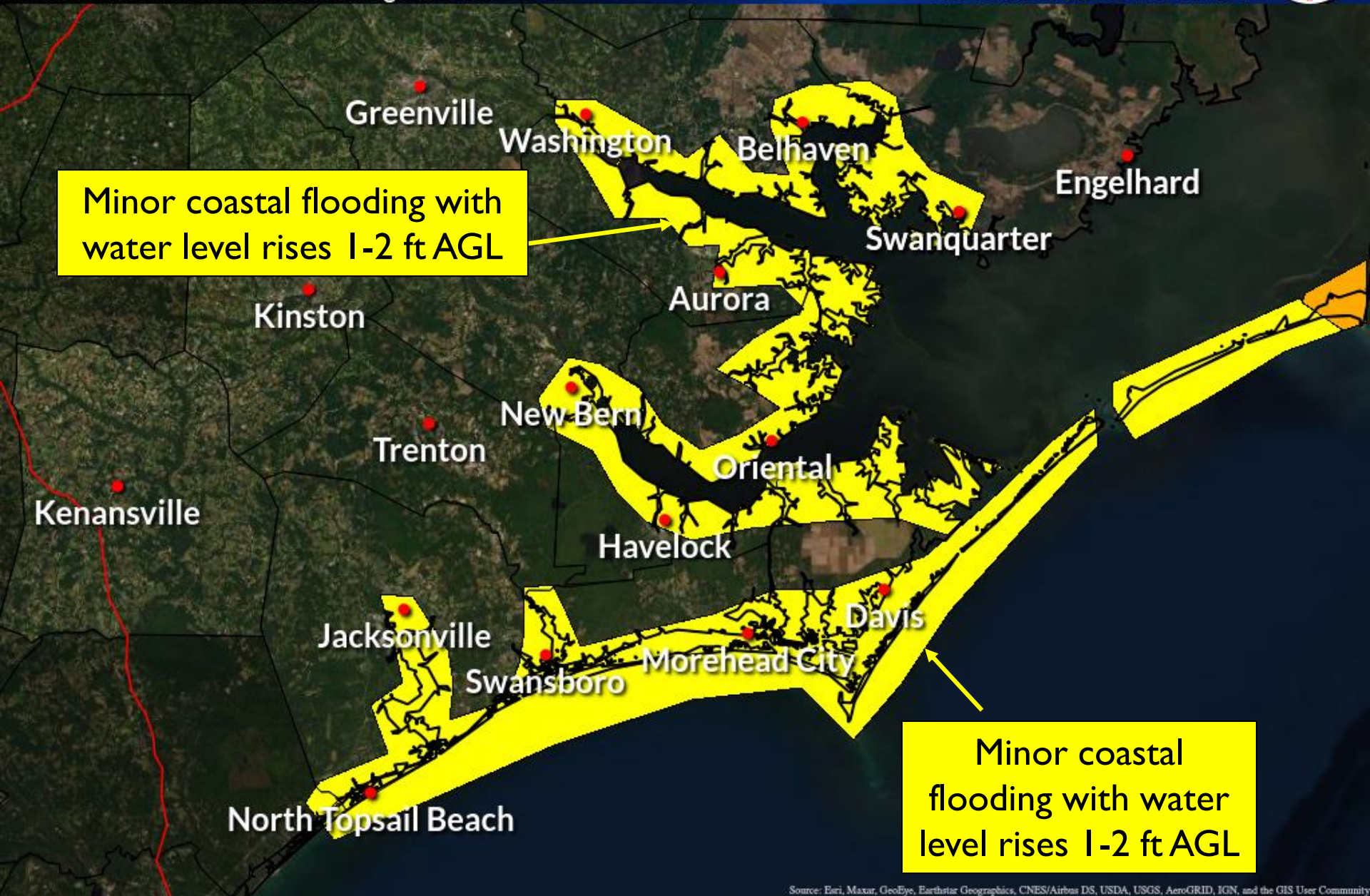
Sunday and Monday

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Newport/Morehead City, NC

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Moderate to Minor Coastal Flooding Possible



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

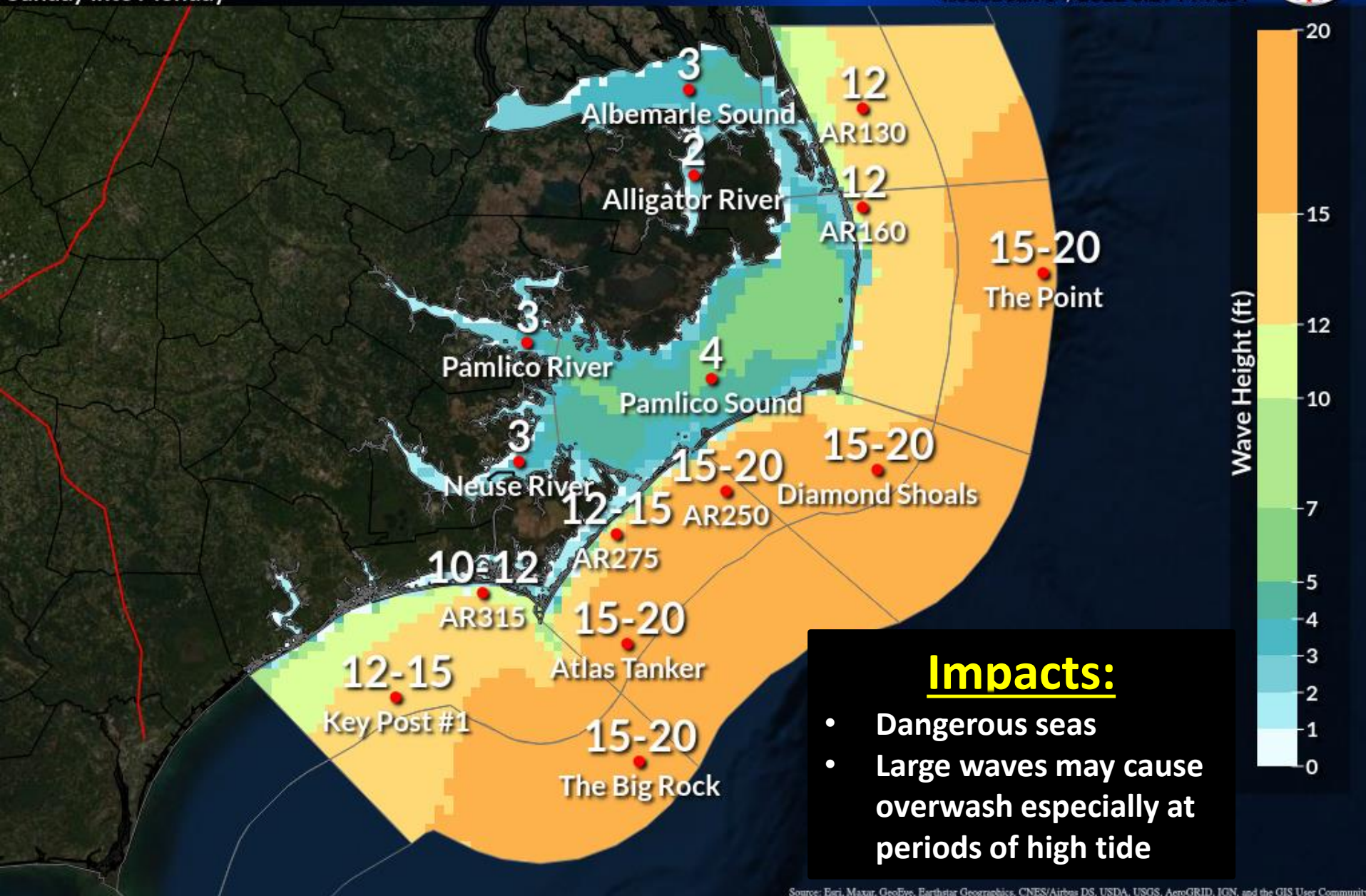


# Maximum Wave Height

Sunday into Monday

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Newport/Morehead City, NC

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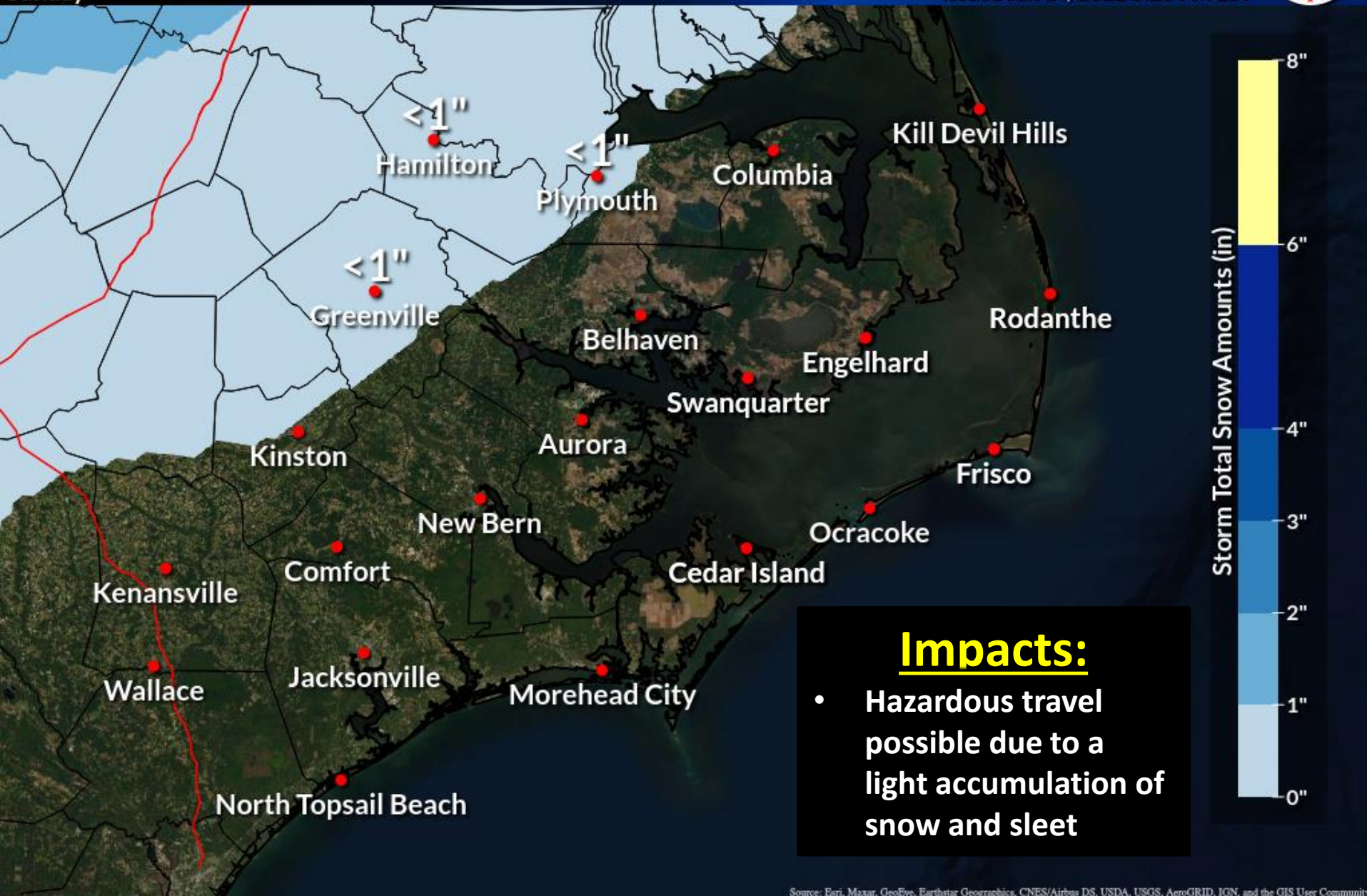


# Storm Total Snow

Sunday

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Newport/Morehead City, NC

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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

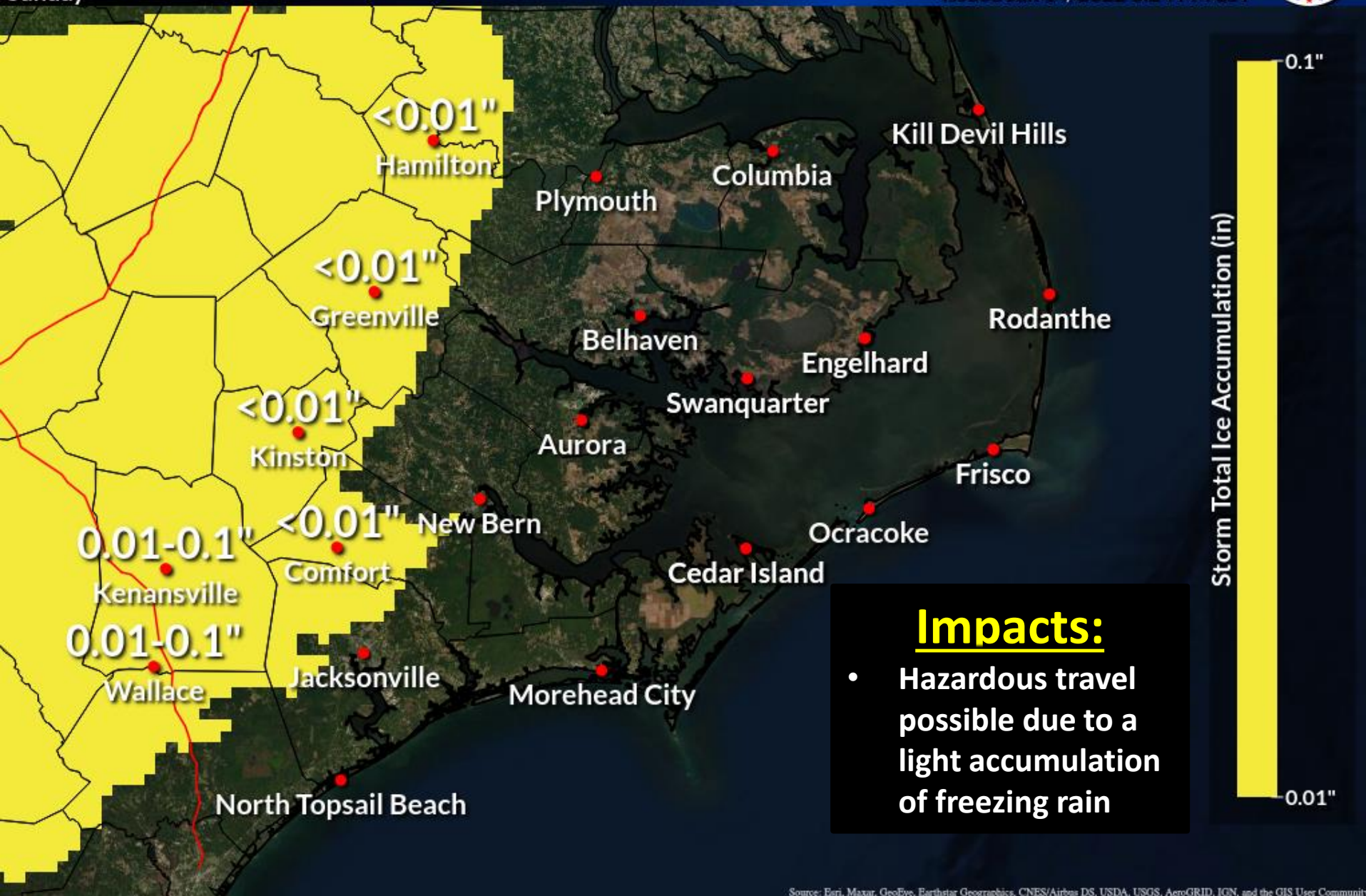


# Storm Total Ice

Sunday

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Newport/Morehead City, NC

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## Impacts:

- Hazardous travel possible due to a light accumulation of freezing rain

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

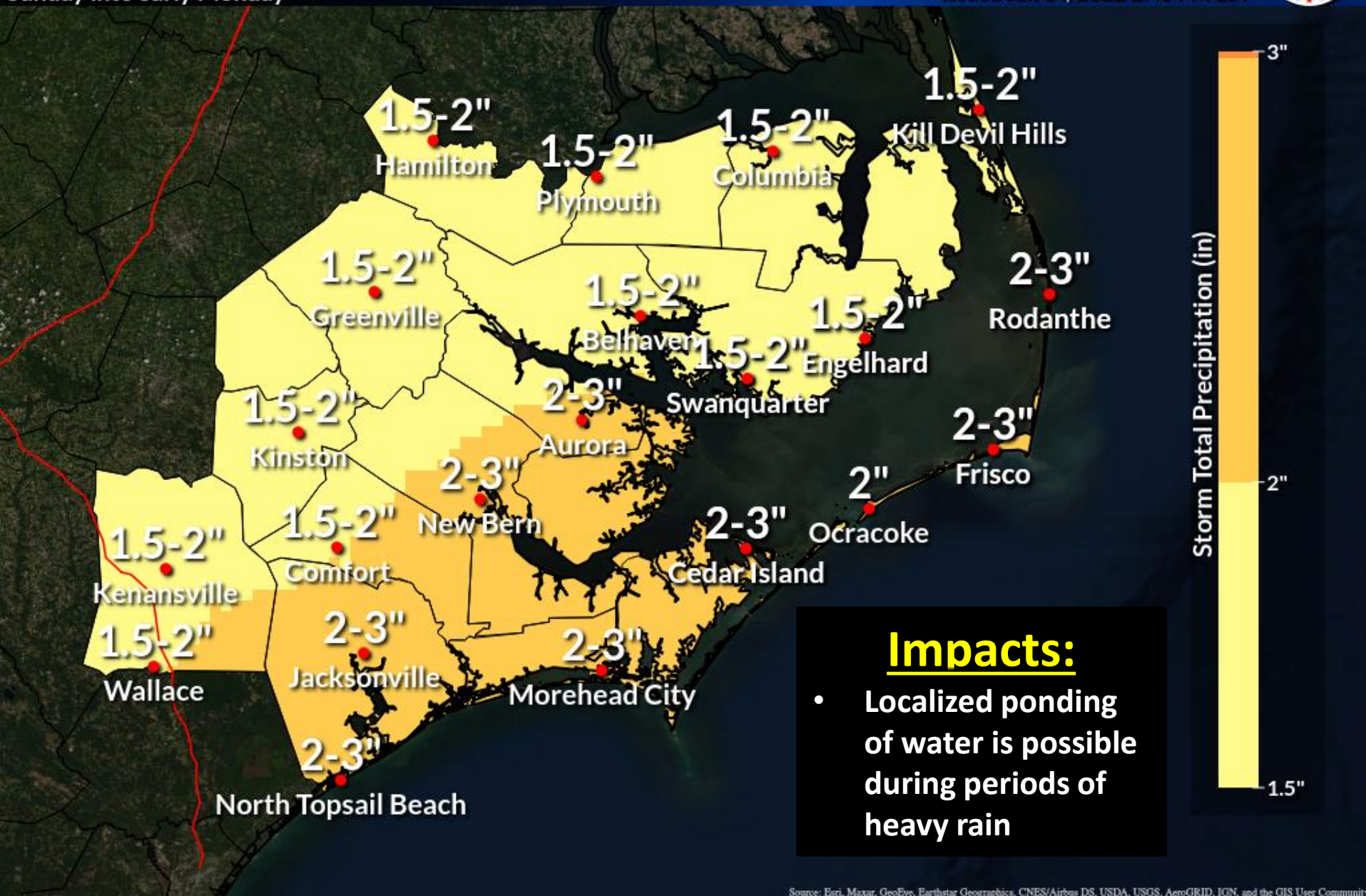


# Total Rainfall

Sunday into early Monday

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Newport/Morehead City, NC

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## Impacts:

- Localized ponding of water is possible during periods of heavy rain

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

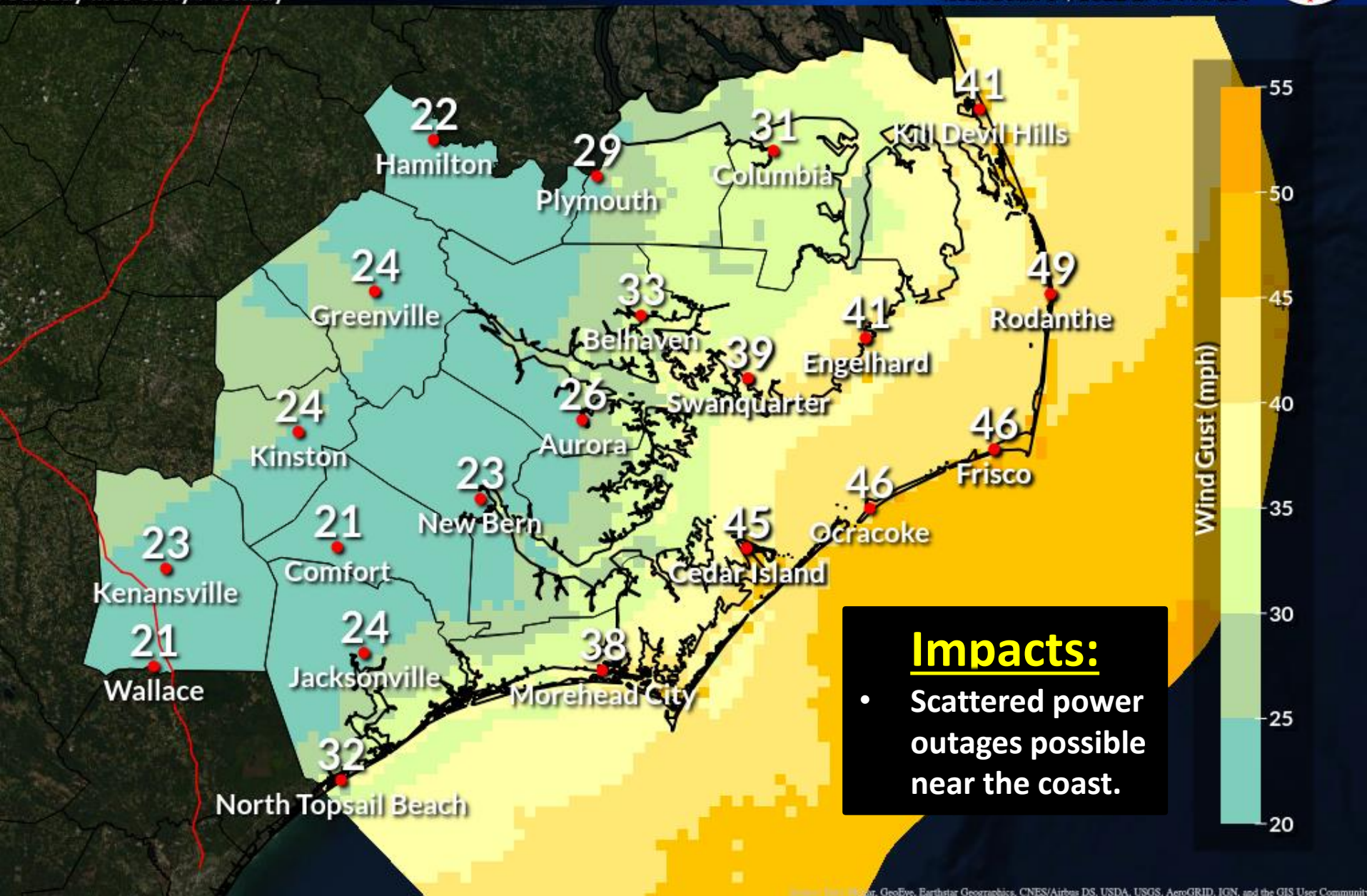


# Maximum Wind Gusts

Sunday into early Monday

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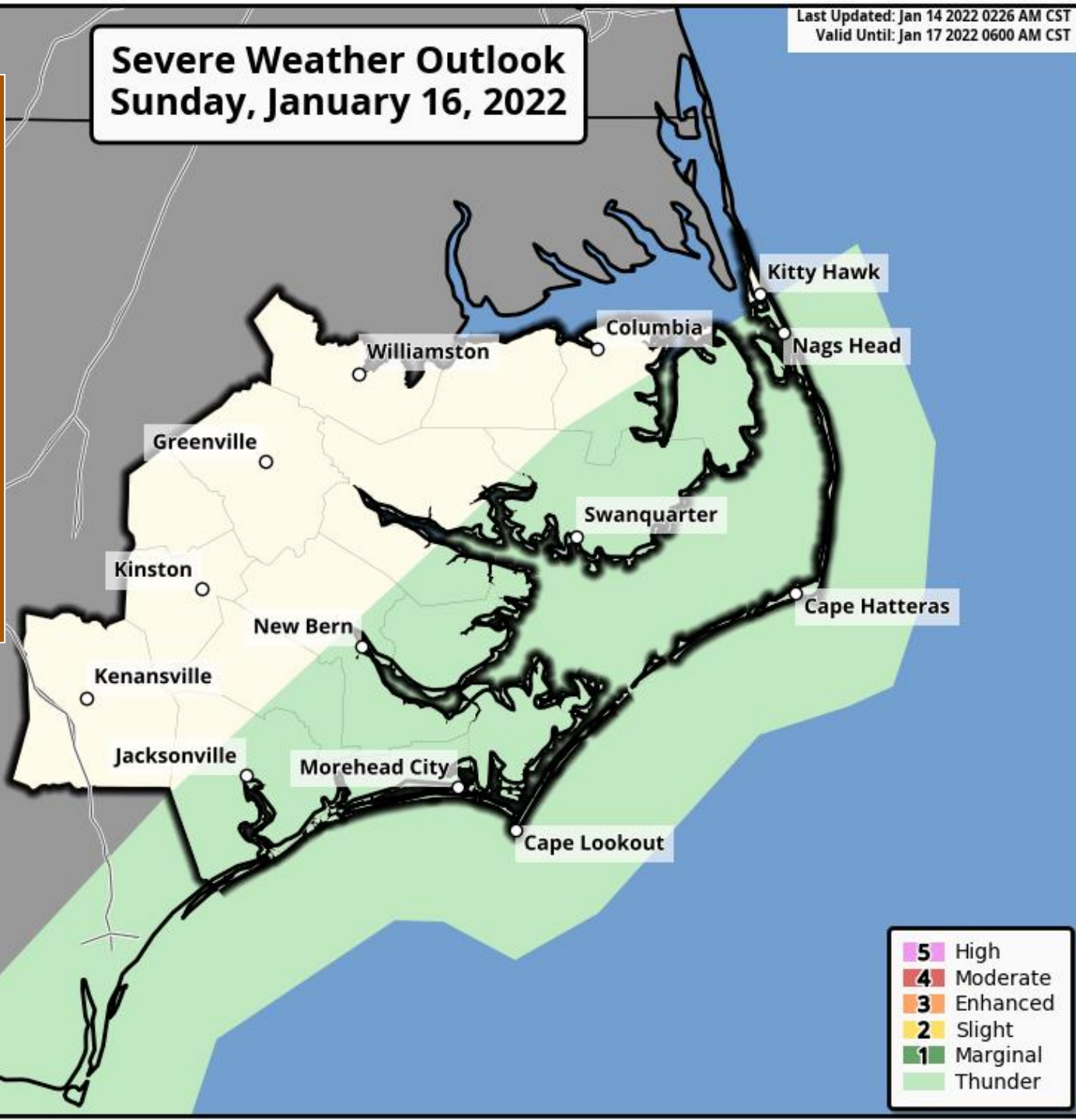
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# Severe Weather Outlook Sunday, January 16, 2022

Some stronger storms are possible especially along the immediate coastline (Green Shaded Area) and especially the Outer Banks. Time frame would be Sunday afternoon into Sunday evening



- 5 High
- 4 Moderate
- 3 Enhanced
- 2 Slight
- 1 Marginal
- Thunder

## Event Summary

✓ Confidence is **HIGH** that this event will occur, and we are expecting **moderate** impacts



**Coastal Flooding:** Minor to Moderate impacts adjacent to the southern Pamlico Sound, Core Sound, lower Neuse River, Pamlico River, and sound-side Outer Banks. Additionally, minor impacts along Bogue Sound and the Crystal Coast. Very low-lying roads and properties flooded.

**Ocean Overwash:** Minor overwash possible north of Cape Hatteras. Portions of Hwy 12 could be impacted, especially around high tides.



**Winter Weather:** A period of snow, sleet and freezing rain will make hazardous travel possible inland, especially along and west of Highway 17.



**Strong Winds:** Wind gusts to 40 to 50 mph or higher along the coast could bring scattered power outages.



**Heavy Rainfall:** Rainfall totals 1-3 inches could bring localized ponding of water in low lying areas, during heavier periods of rain.



**Very Dangerous Marine Conditions:** Seas 10-20 ft and strong Gale to Storm Force winds expected. Powerful surf and minor erosion at the beaches.



# Contact and Next Briefing Information



**Next Briefing will be issued  
Saturday morning**

[Briefing Webpage](http://www.weather.gov/mhx/)



**Web:**

<http://www.weather.gov/mhx/>



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